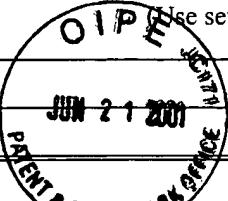


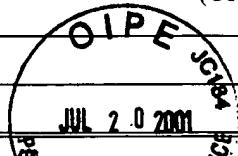
U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.	Serial No.		
				AB-1111 US	09/816,599		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicants			
 (Use several sheets if necessary)				Seong Min Seo, Young Suk Chung, Jong Sik Paek, Jae Hun Ku, Jae Hak Yee			
				Filing Date	Group		
				March 23, 2001	N/A		
U.S. Patent Documents							
*Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA 6,229,200	5/8/01	Mclellan, et al.	257	666		
	AB 4,812,896	3/14/89	Rothgery, et al.	357	70		
	AC 5,157,480	10/20/92	McShane, et al.	357	74		
	AD 5,200,362	4/6/93	Lin, et al.	437	207		
	AE 5,200,809	4/6/93	Kwon	257	707		
	AF 5,214,845	6/1/93	King, et al.	29	841		
	AG 5,216,278	6/1/93	Lin, et al.	257	688		
	AH 5,221,642	6/22/93	Burns	437	207		
	AI 5,273,938	12/28/93	Lin, et al.	437	207		
	AJ 5,277,972	1/11/94	Sakumoto, et al.	428	355		
	AK 5,279,029	1/18/94	Burns	29	856		
	AL 5,332,864	7/26/94	Liang, et al.	174	52.4		
	AM 5,343,076	8/30/94	Katayama, et al.	257	717		
	AN 5,406,124	4/11/95	Morita, et al.	257	783		
	AO 5,424,576	6/13/95	Djennas, et al.	257	666		
Foreign Patent Documents							
						Translation	
	Document	Date	Country	Class	Subclass	Yes	No
	AP 57-45959 w/Eng. Abstract	3/16/82	Japan	H01L	23/28		X
	AQ 62-9639	1/17/87	Japan	H01L	21/56	X	
	AR 61-39555 w/Eng. Abstract	2/25/86	Japan	H01L	23/36		X
	AS 63-205935 w/Eng. Abstract	8/25/88	Japan	H01L	23/28		X
	AT 63-233555 w/Eng. Abstract	9/29/88	Japan	H01L	23/30		X
	AU 7-312405	11/28/95	Japan	H01L	23/50	X	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AV						
Examiner	Date Considered 1/21/04						
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<i>JUN 21 2001</i> <i>U.S. PATENT & TRADEMARK OFFICE</i>				Seong Min Seo, Young Suk Chung, Jong Sik Paek, Jae Hun Ku, Jae Hak Yee				
				Filing Date	Group			
				March 23, 2001	N/A			
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
<i>RS</i>	AA	5,604,376	2/18/97	Hamburgen, et al.	257	676		
<i>RS</i>	AB	5,608,267	3/4/97	Makulikar, et al.	257	796		
<i>RS</i>	AC	5,639,990	6/17/97	Nishihara, et al.	174	52.2		
<i>RS</i>	AD	5,640,047	6/17/97	Nakashima	257	738		
<i>RS</i>	AE	5,641,997	6/24/97	Ohta, et al.	257	788		
<i>RS</i>	AF	5,646,831	7/8/97	Manteghi	361	813		
<i>RS</i>	AG	5,650,663	7/22/97	Parthasarathi	257	706		
<i>RS</i>	AH	5,683,806	11/4/97	Sakumoto, et al.	428	343		
<i>RS</i>	AI	5,696,666	12/9/97	Miles, et al.	361	764		
<i>RS</i>	AJ	5,701,034	12/23/97	Marrs	257	706		
<i>RS</i>	AK	5,710,064	1/20/98	Song, et al.	437	220		
<i>RS</i>	AL	5,894,108	4/13/99	Mostafazadeh, et al.	174	52.4		
<i>RS</i>	AM	6,001,671	12/14/99	Fjelstad	438	112		
<i>RS</i>	AN	6,130,473	10/10/00	Mostafazadeh, et al.	257	666		
Foreign Patent Documents								
							Translation	
	AO	Document	Date	Country	Class	Subclass	Yes	No
<i>RS</i>	AP	8-125066	5/17/96	Japan	H01L	23/12	X	
<i>RS</i>	AQ	8-306853	11/22/96	Japan	H01L	23/50	X	
<i>RS</i>	AR	9-8205	1/10/97	Japan	H01L	23/50	X	
<i>RS</i>	AS	9-8206	1/10/97	Japan	H01L	23/50	X	
<i>RS</i>	AT	9-8207	1/10/97	Japan	H01L	23/50	X	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AU							
Examiner <i>David M. Boone</i>	Date Considered <i>1/21/04</i>							
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

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				March 23, 2001	N/A			
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
AA		5,521,429	5/28/96	Aono, et al.	257	676		
AB		5,981,314	11/9/99	Glenn, et al.	438	127		
AC		6,143,981	11/7/00	Glenn	174	52.4		
AD		5,336,931	8/9/94	Juskey, et al.	257	787		
AE		5,977,613	11/2/99	Takata, et al.	257	666		
AF		5,776,798	7/7/98	Quan, et al.	438	112		
AG		3,833,984	10/1/74	Crane, et al.	29	193.5		
AH		4,530,152	7/23/85	Roche, et al.	29	588		
AI		5,041,902	8/20/91	McShane	357	79		
AJ		5,172,213	12/15/92	Zimmerman	257	796		
AK		5,172,214	12/15/92	Casto	257	676		
Foreign Patent Documents								
							Translation	
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AL		9-92775	4/4/97	Japan	H01L	23/50	X	
AM		55-163868 w/Eng. Abstract	12/20/80	Japan	H01L	23/48		X
AN		60-195957 w/Eng. Abstract	10/4/85	Japan	H01L	23/48		X
AO		DE 197 34 794	8/11/97	Germany	H01L	23/50		X
AP		6-92076 w/Eng. Abstract	4/5/94	Japan	H01L	23/00		X
AQ		59-227143 w/Eng. Abstract	12/20/84	Japan	H01L	23/12		X
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
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Examiner: <i>Deborah Rose</i>	Date Considered	1/21/01						
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<i>RECEIVED JUN 21 2001 U.S. PATENT & TRADEMARK OFFICE</i>				Seong Min Seo, Young Suk Chung, Jong Sik Paek, Jae Hun Ku, Jae Hak Yee				
				Filing Date	Group			
				March 23, 2001	N/A			
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA	5,258,094	11/2/93	Furui, et al.	156	634		
	AB	5,278,446	1/11/94	Nagaraj, et al.	257	707		
	AC	5,435,057	7/25/95	Bindra, et al.	29	830		
	AD	5,783,861	7/21/98	Son	253	693		
	AE	5,835,988	11/10/98	Ishii	257	684		
	AF	5,859,471	1/12/99	Kuraishi, et al.	257	666		
	AG	5,866,939	2/2/99	Shin, et al.	257	666		
	AH	5,877,043	3/2/99	Alcoe, et al.	438	123		
	AI	5,977,630	11/2/99	Woodworth, et al.	257	712		
	AJ	4,707,724	11/17/87	Suzuki, et al.	357	71		
	AK	4,756,080	7/12/88	Throp, Jr., et al.	29	827		
	AL	5,273,938	12/28/93	Lin, et al.	437	207		
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AM	794 572 A2	9/10/97	EPO	H01L	23/495	X	
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Examiner	<i>Desha D. Doan</i>	Date Considered						<i>1/21/01</i>
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		Filing Date	Group
		March 23, 2001	N/A



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	AA 6,005,778	12/21/99	Spielberger, et al.	361	770	
	AB 5,229,647	7/20/93	Gnadinger	257	785	
	AC 3,851,221	11/26/74	Beaulieu, et al.	317	100	
	AD 4,730,232	3/8/88	Lindberg	361	381	
	AE 4,763,188	8/9/88	Johnson	357	74	
	AF 4,982,265	1/1/91	Watanabe, et al.	357	75	
	AG 5,025,306	6/18/91	Johnson, et al.	357	75	
	AH 5,040,052	8/13/91	McDavid	357	80	
	AI 5,140,404	8/18/92	Fogal, et al.	357	70	
	AJ 5,291,061	3/1/94	Ball	257	686	
	AK 5,323,060	6/21/94	Fogal, et al	257	777	

Foreign Patent Documents

						Translation	
	Document	Date	Country	Class	Subclass	Yes	No
	AL 62-126661 Eng. Abs.	6/8/87	Japan	H01L	25/04		
	AM 4-56262 Eng. Abs.	2/24/92	Japan	H01L	25/65		
	AN 63-244654 Eng. Abs.	10/12/88	Japan	H01L	23/28		
	AO 5136323 Eng. Abs.	6/1/93	Japan	H01L	23/50		
	AP 5109975 Eng. Abs.	4/30/93	Japan	H01L	25/065		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner Seong Min Seo Date Considered 1/21/04

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use several sheets if necessary)</i>				Applicants			
<i>O T P E JUL 20 2001 PATENT & TRADEMARK OFFICE</i>				Seong Min Seo, et al.			
				Filing Date	Group		
				March 23, 2001	N/A		
U.S. Patent Documents							
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	AA 5,432,729	7/11/95	Carson, et al	365	63		
	AB 5,682,062	10/28/97	Gaul	257	686		
	AC 5,721,452	2/24/98	Fogal, et al.	257	685		
	AD 5,739,581	4/14/98	Chillara, et al.	257	668		
	AE 5,815,372	9/29/98	Gallas	361	760		
	AF 5,872,025	2/16/99	Cronin, et al.	438	109		
	AG 5,886,412	3/23/99	Fogal, et al.	257	777		
	AH Re. 36,613	3/14/00	Ball	257	777		
	AI 6,051,886	4/18/00	Fogal, et al.	257	777		
	AJ 6,057,598	5/2/00	Payne, et al.	257	723		
	AK 5,861,666	1/19/99	Bellaar	257	686		
Foreign Patent Documents							
						Translation	
	Document	Date	Country	Class	Subclass	Yes	No
	AL 61117858 Eng. Abs.	6/5/86	Japan	H01L	25/08		
	AM 4028260 Eng. Abs.	1/30/92	Japan	H01L	25/065		
	AN 4116859 Eng. Abs.	4/17/92	Japan	H01L	25/065		
	AO 4096358 Eng. Abs.	3/27/92	Japan	H01L	25/065		
	AP 5013665 Eng. Abs.	1/22/93	Japan	H01L	25/065		
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
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Examiner	<i>Seong Min Seo</i>	Date Considered					<i>1/21/02</i>
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		Filing Date	Group
		March 23, 2001	N/A

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*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA	5,165,067	11/17/92	Wakefield, et al.	257	783	
AB	5,614,766	3/25/97	Takasu, et al.	257	777	
AC	5,587,341	12/24/96	Masayuki, et al.	437	206	
AD	5,473,196	12/5/95	De Givry	257	786	
AE	5,426,563	6/20/95	Moresco, et al.	361	689	
AF	5,502,289	3/26/96	Takiar, et al.	174	266	
AG	5,422,435	6/6/95	Takiar, et al.	174	52.4	
AH	5,334,875	8/2/94	Sugano, et al.	257	686	
AI	5,198,888	3/30/93	Sugano, et al.	257	686	
AJ	5,793,108	8/11/98	Nakahishi, et al.	257	723	
AK	5,783,870	7/21/98	Mostafazadeh, et al.	257	791	

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						Translation	
	Document	Date	Country	Class	Subclass	Yes	No
AL	4-368154 A w/Eng. Abs.	12/21/92	Japan	H01L	23/00		X
AM	54-128274 w/Eng. Abs.	4/10/79	Japan	H01L	23/30		X
AN	1028856 w/Eng. Abs.	1/31/89	Japan	H01L	27/00		X
AO	1099248 A w/Eng. Abs.	4/18/89	Japan	H01L	25/08	X	
AP	60182731 w/Eng. Abs.	9/18/85	Japan	H01L	21/60		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner: <i>Seong Min Seo</i>	Date Considered: <i>1/21/02</i>
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			March 23, 2001	N/A			
U.S. Patent Documents							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA 5,973,403	10/26/99	Wark	257	777		
	AB 5,917,242	6/29/99	Ball	257	737		
	AC 5,696,031	12/9/97	Wark	437	209		
	AD 5,637,912	6/10/97	Cockerill, et al.	257	620		
	AE 5,637,536	6/10/97	Val	438	686		
	AF 5,581,498	12/3/96	Ludwig, et al.	365	63		
	AG 5,514,907	5/7/96	Moshayedi	257	723		
	AH 5,495,398	2/27/96	Takiar, et al.	361	790		
	AI 5,495,394	2/27/96	Kornfeld, et al.	361	764		
	AJ 5,463,253	10/31/95	Waki, et al.	257	724		
	AK 5,012,323	4/30/91	Farnsworth	357	75		
Foreign Patent Documents						Translation	
	Document	Date	Country	Class	Subclass	Yes	No
	AL 56062351 w/Eng. Abs.	5/28/81	Japan	H01L	25/04		X
	AM 3169062 w/Eng. Abs.	7/23/91	Japan	H01L	25/065		X
	AN 10-256470	9/25/98	Japan	H01L	25/065	X	
	AO 1071162 A Eng. Abs	3/16/89	Japan	H01L	23/52		X
	AP 5-75015 (A) Eng. Abs	3/26/93	Japan	H01L	25/065		X
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				Filing Date	Group			
				March 23, 2001	N/A			
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
<i>PL</i>	AA	4,996,587	2/26/91	Hinrichsmeyer, et al.	357	74		
<i>PL</i>	AB	4,567,643	2/4/86	Droguet, et al.	29	575		
<i>PL</i>	AC	5,793,108	8/11/98	Nakanishi, et al.	257	723		
<i>PL</i>	AD	5,689,135	11/18/97	Ball	257	676		
<i>PL</i>	AE	5,138,438	8/11/92	Masayuki, et al.	357	75		
<i>PL</i>	AF	5,347,429	9/13/94	Kohno, et al.	361	813		
<i>PL</i>	AG	6,080,264	6/27/00	Ball	156	292		
<i>PL</i>	AH	5,422,435	6/6/95	Takiar, et al.	174	52.4		
<i>PL</i>	AI	5,569,625	10/29/96	Yoneda, et al.	29	827		
<i>PL</i>	AJ	5,798,014	8/25/98	Weber	156	263		
<i>PL</i>	AK	5,885,849	3/23/99	DiStefano, et al.	438	108		
Foreign Patent Documents								
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		Document	Date	Country	Class	Subclass	Yes	No
<i>PL</i>	AL	4-368167 w/Eng. Abs.	12/21/92	Japan	H01L	25/065		X
<i>PL</i>	AM	5-283601	10/29/93	Japan	H01L	23/52		X
<i>PL</i>	AN	503 201 A2	12/20/91	EPO	H01L	23/495		
<i>PL</i>	AO	64001269 Eng. Abs.	1/5/89	Japan	H01L	25/04		
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
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*Examiner Initial	Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
AA	5,952,611	9/14/99	Eng, et al.	174	52.4		
AB	6,072,243	6/6/00	Nakanishi	257	783		
AC	6,184,463	2/6/01	Panchou, et al.	174	52.4		
AD	6,235,554	5/22/01	Akram, et al.	438	109		
AE	6,214,641	4/10/01	Akram	438	107		
AF	5,715,147	2/3/98	Nagano	361	813		
AG	6,133,637	10/17/00	Hikita, et al.	257	777		
AH							
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Foreign Patent Documents							
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	Document	Date	Country	Class	Subclass	Yes	No
AL	61059862 Eng. Abs	3/27/86	Japan	H01L	25/04		
AM	62119952 Eng. Abs.	6/1/87	Japan	H01L	25/04		
AN	62126661 Eng. Abs.	6/8/87	Japan	H01L	25/04		
AO	62142341 Eng. Abs.	6/25/87	Japan	H01L	25/04		
AP	63211663 Eng. Abs.	9/2/88	Japan	H01L	25/08		
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	AS						
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				March 23, 2001		N/A		
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA							
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AL							
<i>DS</i>	AM	4056262 w/Eng. Abs.	2/24/92	Japan	H01L	25/065		
<i>DS</i>	AN	62126661 w/Eng. Abs.	6/8/87	Japan	H01L	25/04		X
<i>DS</i>	AO	63128736 w/Eng. Abs.	6/1/88	Japan	H01L	23/04		X
<i>DS</i>	AP	63244654 w/Eng. Abs.	10/12/88	Japan	H01L	23/28		X
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AQ							
	AR							
Examiner: <i>Seong Min Seo</i>		Date Considered <i>1/21/04</i>						
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